

SAM (REX/Ops) Operations Meeting 2008.01.29

Present: Adam (typist), Art, Steve White, Parag, Angela, Steve S.

For reports submitted to the meeting...

The report text is in this font

Comments made during the meeting are in this font inline with the report

Releases:

Steve has given 8.4.3 DB server to Steve Sherwood for testing. Has a fix for the empty SAMLlist in the metadata; and a fix for the wrong CORBA metadata type in the IDL. BEFORE DEPLOYING we need to alert users that if they access a retired file, and use that metadata to store a new file, they need the new import for the SAMLlist.

Robert has a new client in the works to automatically do the imports (!!). But note that the MC script was trying to do the import themselves.

Robert is still working on sam_cpp_api. Test program consistently hangs on exit when linked with shared objects. But when static linking, works fine. Suspect problem with destruction of global objects. Arrrrgh! Why there is a problem with a small change and not with the released sam_cpp_api is unknown. Perhaps difference is that Robert is developing on a SL4 machine - maybe differences in the linker.

DØ:

-- A shifter (G. Grenier) pointed out that occasionally (happened to him and also to another user Yury Shcheglov) emails sent to d0sam-admin@fnal.gov: <http://listserv.fnal.gov/scripts/wa.exe?A2=ind0801&L=d0sam-admin&T=0&X=324F91769860288F8C&Y=grenier%40ipnl.in2p3.fr&P=2242> didn't generate a Plone ticket.

Marc Mengel looked into this - suspects listserv spam checker caught the messages.

-- A. Kumar informed us on Jan. 23, 2008 that "Patch had been deployed successfully. d0ofdev1 database is available for use. "

Unresolved issues :

No unresolved issues after Dec. 26, 2007 ! That one was :

#3290: "EM Alert: Warning D0OFPRD1.FNAL.GOV - ORA-error stack (07445[kpopfr()+536]) " from A. Kumar.

Nobody wants to comment on this or we just closed it or left it open ?
We will resolve this ticket.

Steve W is cleaning up the cached file table. The table is down from 48 million rows to

*12 M. Still running -
expect to end up with 1.5 M files in the cache.*

CDF:

here's the CDF report:

- On Tuesday around 14:00 the SL8500 robot was shut down for emergency repairs. There was a large number of restore afterwards which was resolved on Wednesday morning.
- One sam test job had a "CORBA User Exception".
- The sam upload server fcdldata322 died on Tuesday and was restarted by helpdesk. Uploads were failing because of a missing pnfs mount. Fixed by Mark Schmitz on Thursday.
- Alon Attal is running jobs as user cdfdqm and wants to access files via sam, but no files are delivered. Still have to check his tcl file.
Robert noticed that the maximum number of files to deliver is zero.
*User has started files with SAM, but had set max number of files to deliver to be zero (not sure how that got set - Robert cannot reproduce setting this parameter to zero).
Thomas has asked to look at his tar file and TCL script, but user has not responded.
Current feeling
is that the user is doing something wrong, but not sure what yet.*
- On Saturday around 2am there were spikes in the response time of the production dCache doors and the kerberized diskpool doors went down. The production dCache doors were fine again at about 3am, the diskpool doors were restarted by Alexei at ~3pm.
- The increased number of maximal transfers of the restarted fcp server caused low transfer rates from fncdfsrv14 to tape. Fixed by Angela on Monday.
- Angela moved fcdldata126-2 to the TestPools because it had few backed up requests.
- Angela increased the maximum number of active WAN movers per pool from 2 to 4. I'll check the effect on the transfer rate to GridKa.

MINOS:

No new issues

Comments

DB:

Oracle's quarterly Security patches are expected to be release on Jan 15, 2008
CSS-DSG group will be scheduling downtimes for Dev/int and production databases in coming weeks.

D0 :

- Scheduling deployment of security patch on d0ofint1/d0ofprd1 on 2/5/08
D0 downtime was moved to 2/12. Anil will be on furlough. Nelly will do patch.

- Scheduling Schema cut on d0ofprd1 2/5/08 - To add composite index on lower (file_name) and retired_date
- Drop the unique index on lower(file_name)
Recreated as non-unique on file_name.
dropped the unique constraint on file_name and retired_date

This will be deferred until March downtime, when Anil is back from furlough.

Alert(s):

Message=Tablespace [OPERATIONAL_IDX_01] is [80 percent] full

Action: Added 8GB

- Wed Jan 23 12:41:01 CST 2008
Information for: d0ofprd1

| Owner | Object | Type | Extents Used | Extents Allocated | Extents Left |
|--------|--------|-------|--------------|-------------------|--------------|
| SAMPRD | PD_PK | INDEX | 96 | 100 | 4 |

Action : Increased the max extents to 200.

Message=Tablespace [TS_CFPD_03312000] is [80.44 percent] full

Action: Added 1 GB

CDF :

- Deployed db security on cdfofdev and cdfofint on 1/28/07
- Need to schedule the patch on cdfofpr2 and v6_10 SAM Schema cut

Alert(s):

Message=Tablespace [CONSUMED_FILES_P01] is [85 percent] full

Action: Added 500MB

MINOS:

- Scheduled DB Security patch on minosdev/minosint db for Tuesday 1/29/08 8:00AM
- Need to schedule the patch on minosprd as well as v6_10 SAM schema cut

Comments**Enstore/dCache:****Scheduled Downtimes:**

- o D0 - Tue, Feb 12 ??
 - enstore s/w updates
- < 1 hour downtime

- o CDF - Thu, Feb 14 ??
 - upgrade of entire suite of enstore servers to SDE rack
- CHANGE downtime to March 18 - full down day for enstore
(SDE = strategically deployed enstore = standard hardware)
[Not clear if deployment is ready for 2/14 anyway]
During this extra month, risk is longer downtime if something fails.*

- o STK - Thu, Feb 21
 - selective enstore s/w updates (media changer)
- Is pnfs affected? Probably not.*

Operations:

- o SL8500
 - handbot replaced on SL8500-1
- Many handbot replacements*

- o d0en
 - any update on PRV012L1? -- damaged LTO2 leader -- Adam will ping Qizhong
 - 65 9940B tapes reclaimed
 - 220 blank 9940 tapes found in a PREP locker; 51 were loaded
 - stk media changer restarted

- o stken
 - stkensrv0 (enstore databases) raid lost a disk

o fndca

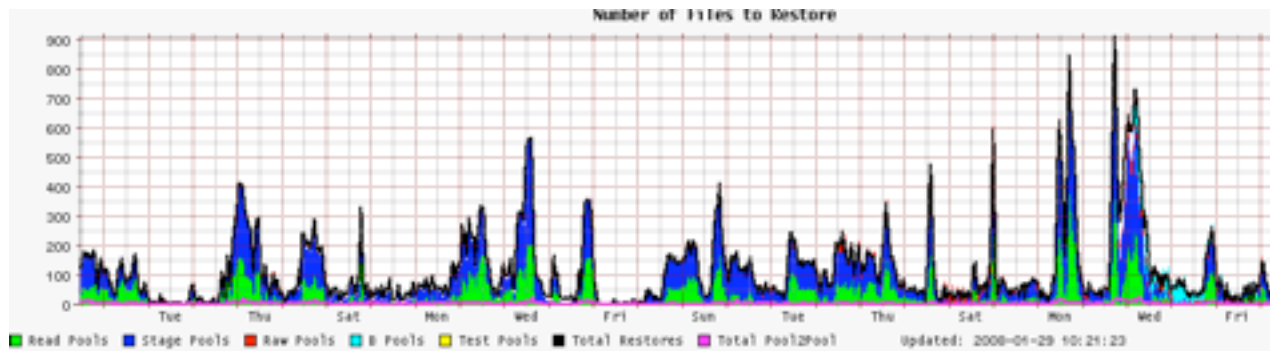
- DOE grid host certs renewed on 3 admin and 4 pool nodes.
- srm and gPlazma restarted to refresh certificate cache.
- fndca14a (read pools) raid backplane has burned out slot replacement backplane ordered, expected this week

o cdfen

- stk media changer restarted

o cdfdca

- large scale restore activity noticed on 01/23. No errors, later disappeared by itself.



This was a day when many tapes had problems. The handbot failed on Tuesday. Or could be "tab flipping" activity.

Randolph: The complete file listing and other reports have become slower. Randolph delayed his report generation by 10 minutes to accommodate this change.